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(57) Abstract :  
This system introduces an advanced system tailored for the swift and precise identification of two-wheeler license plates, integrating cutting-edge techniques like connected component analysis (CCA) and template matching. The system's versatility extends to various applications, spanning from automatic toll collection to traffic law enforcement, parking lot access control, and road traffic monitoring. Central to its functionality is the utilization of AI-driven templates for character identification, enhancing both accuracy and efficiency in license plate recognition tasks. Noteworthy features include the model's simplicity and swift processing in number plate segmentation and character recognition, contributing to an overall enhanced system performance. This system represents a notable advancement in real-time vehicle plate detection, aligning closely with the concept of Advanced License Plate Recognition for theft vehicle detection. Key to the system's effectiveness is its reliance on AI-driven templates for character identification, which enables the system to adapt to diverse font styles and environmental factors. Furthermore, the model's simplicity and swift processing in number plate segmentation and character recognition streamline the workflow, facilitating real-time detection of vehicle plates with minimal latency.